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**Biological process activity transformation of single cell gene expression for cross-species alignment.**

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**Public Summary:**

The maintenance and transition of cellular states are controlled by biological processes. Here we present a gene set-based transformation of single cell RNA-Seq data into biological process activities that provides a robust description of cellular states. Moreover, as these activities represent species-independent descriptors, they facilitate the alignment of single cell states across different organisms.

**Scientific Abstract:**

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